TYPE OR PRINT IN BLACK INK (For instructions, see booklet: "How to File an Application to Appropriate Water in California")

California Environmental Protection Agency

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400
www.waterrights.ca.gov

DFG COPY

2007 AUG 13 AM 11:21

APPLICATION NO. _____ (leave blank)

APPLICATION TO APPROPRIATE WATER

SECTION A: NOTICE INFORMATION

1. APPLICANT/AGENT

a.

	APPLICANT	ASSIGNED AGENT (if any)
Name	Newton Vineyard LLC	J. Tevis Armstrong
		Water Rights Consultant
Mailing Address	One California Drive	4209 American River Drive
City, State & Zip	Yountville, CA 94599	Sacramento, CA 98864
Telephone	707-738-0351	916-484-7886
Fax		
E-mail		

2. OWNERSHIP INFORMATION (Please check type of ownership.)

☐ Sole Owner ☒ Limited Liability Company (LLC) ☐ General Partnership*
☐ Limited Partnership* ☐ Business Trust ☐ Husband/Wife Co-Ownership
☐ Corporation ☐ Joint Venture ☐ Other _____
*Please provide a copy of your partnership agreement.

fees completed

3. PROJECT DESCRIPTION (Provide a detailed description of your project, including, but not limited to, type of construction activity, area to be graded or excavated, and how the water will be used.)

This application is being filed to replace Appl30690. Reservoir was constructed many years ago. The place of use has also been planted many years ago.
See email of 7/29/2008

☐ *For continuation, see Attachment No.* ___

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

a. PURPOSE OF USE (irrigation, domestic, etc.)	DIRECT DIVERSION				STORAGE		
	AMOUNT		SEASON OF DIVERSION		AMOUNT	SEASON OF COLLECTION	
	Rate (cfs or gpd)*	Acre-feet per year	Beginning date (month & day)	Ending date (month & day)	Acre-feet per year	Beginning date (month & day)	Ending date (month & day)
irrigation					32af	11/15	3/31
fire prot							

☐ *See Attachment No.* ___ * If rate is less than 0.025 cubic feet per second (cfs), use gallons per day (gpd).

b. Total combined amount taken by direct diversion and storage during any one year will be _____ acre-feet.
c. Reservoir storage is: ☒ onstream ☐ offstream ☐ underground (If underground storage, attach Form APP-UGSTOR.)
d. County in which diversion is located: Napa County in which water will be used: Napa
e. Assessor's Parcel Number(s): 022-180-57

5. SOURCES AND POINTS OF DIVERSION/REDIVERSION

a. Sources and Points of Diversion (POD)/Points of Rediversion (PORD):
☒ POD / ☐ PORD # __: unnamed stream tributary to Sulphur Creek
thence Napa River
☐ POD / ☒ PORD # __: Unnamed Stream tributary to Sulphur Creek
thence Napa River
☐ POD / ☐ PORD # __: _____ tributary to _____
thence _____
☐ POD / ☐ PORD # __: _____ tributary to _____
thence _____
☐ *See Attachment No.* ___

8/16/07

8/16/07

8/16-07 $ 10.00 JF

Fees complete 8/16/07
4/12/07
$850.00 (DFG)
$ 1000.00 (DWR) DC

8/13/07
$850.00 (DFG)
$ 1320.00 (DWR) DC

↑ SW¼ of SE¼ JL 9/22/2007

b. State Planar and Public Land Survey Coordinate Description:

POD/ PORD #	CALIFORNIA COORDINATES (NAD 27)	ZONE	POINT IS WITHIN (40-acre subdivision)	SECTION	TOWN -SHIP	RANGE	BASE AND MERIDIAN
POD	N 303,150 E 1,859,300 Zone II		~~SE ¼ of SW ¼~~	35	8N	6W	MD
POR ReDiv	N303353.25 E 1859715.4 Zone II		NW ¼ of SE ¼	35	8N	6W	MD
			¼ of ¼				
			¼ of ¼				

JM 8/16/07

JL 9/22/2007

☐ *See Attachment No.* ___

c. Name of the post office most often used by those living near the proposed point(s) of diversion:
St. Helena, CA 94574

6. WATER AVAILABILITY

a. Have you attached a water availability analysis for this project? ☒ YES ☐ NO
If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation:

☐ *See Attachment No.* ___

b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board during your proposed season of diversion? ☐ YES ☒ NO

c. In an average year, does the stream dry up at any point downstream of your project? ☒ YES ☐ NO If YES, during which months? ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☒ May ☒ Jun ☒ Jul ☒ Aug ☒ Sep ☒ Oct ☒ Nov ☐ Dec

d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.)
Reservoir under Appl 29024

☐ *See Attachment No.* ___

7. PLACE OF USE → See project map

USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF IRRIGATED Acres	IF IRRIGATED Presently cultivated?
¼ of SE ¼	34	8N	6W	MD	22	☒ YES ☐ NO
¼ of SW ¼	35	8N	6W	MD	105	☒ YES ☐ NO
¼ of NW ¼	35	8N	6W	MD	9	☒ YES ☐ NO
¼ of SE ¼	35	8N	6W	MD	3	☒ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
¼ of ¼						☐ YES ☐ NO
				Total:	139	

*Please indicate if section is projected with a "(P)" following the section number.

☐ *See Attachment No.* ___

8. PROJECT SCHEDULE

a. Project is:
☐ proposed. Year construction will begin: _____
☐ partially complete. Extent of completion: _____
☒ complete. Year completed: 1993

b. Year of first use: 1993 Year water will be used to the full extent intended: _____

SECTION B: MISCELLANEOUS DIVERSION INFORMATION

1. JUSTIFICATION OF AMOUNTS REQUESTED

a. ☐ IRRIGATION: Maximum area to be irrigated in any one year: _____ acres.

CROP	ACRES	METHOD OF IRRIGATION (sprinklers, flooding, etc.)	WATER USE (Acre-feet/Yr.)	SEASON OF WATER USE	
				Beginning date (month & day)	Ending date (month & day)
grapes	139	drip	32	April 15	Aug 15

☐ *See Attachment No.* ___

b. ☐ DOMESTIC: Number of residences to be served: _____ Separately owned? ☐ YES ☐ NO
Number of people to be served: _____ Estimated daily use per person is: _____ gallons per day
Area of domestic lawns and gardens: _____ square feet
Incidental domestic uses: _____
(dust control area, number and kind of domestic animals, etc.)

c. ☐ STOCKWATERING: Kind of stock: _____ Maximum number: _____
Describe type of operation: _____
(feedlot, dairy, range, etc.)

d. ☐ RECREATIONAL: Type of recreation: ☐ Fishing ☐ Swimming ☐ Boating ☐ Other _____

e. ☐ MUNICIPAL:

POPULATION List for 5-year periods until use is completed		MAXIMUM MONTH		ANNUAL USE		
Period	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average daily use (gallons per capita)	Acre-foot (per capita)	Total (acre-feet)
Present						

☐ *See Attachment No.* ___

Month of maximum use during year: _____ Month of minimum use during year: _____

f. ☐ HEAT CONTROL: Area to be heat controlled: _____ net acres
Type of crops protected: _____
Rate at which water is applied to use: _____ gpm per acre
Heat protection season will begin _____ (month & day) and end _____ (month & day).

g. ☐ FROST PROTECTION: Area to be frost protected: _____ net acres
Type of crops protected: _____
Rate at which water is applied to use: _____ gpm per acre
The frost protection season will begin _____ (month & day) and end _____ (month & day).

h. ☐ INDUSTRIAL: Type of industry: _____
Basis for determination of amount of water needed: _____

i. ☐ MINING: Name of the claim: _____ ☐ Patented ☐ Unpatented
Nature of the mine: _____ Mineral(s) to be mined: _____
Type of milling or processing: _____
After use, the water will be discharged into _____ (watercourse)
in _____ ¼ of _____ ¼ of Section _____, T _____, R _____, _____B. & M.

j. ☐ POWER: Total head to be utilized: _____ feet
Maximum flow through the penstock: _____ cfs
Maximum theoretical horsepower capable of being generated by the works (cfs x fall ÷ 8.8): _____
Electrical capacity (hp x 0.746 x efficiency): _____ kilowatts at: _____% efficiency
After use, the water will be discharged into _____ (watercourse)
in _____ ¼ of _____ ¼ of Section _____, T _____, R _____, _____B. & M. FERC No.: _____

k. ☐ FISH AND WILDLIFE PRESERVATION AND/OR ENHANCEMENT: List specific species and habitat type that will be preserved or enhanced in Item 7a of Section C.

l. ☒ OTHER: Describe use: fire protection
Basis for determination of amount of water needed: _____

2. **DIVERSION AND DISTRIBUTION METHOD**

a. Diversion will be by gravity by means of: ______________________
(dam, pipe in unobstructed channel, pipe through dam, siphon, weir, gate, etc.)

b. Diversion will be by pumping from: reservoir
(sump, offset well, channel, reservoir, etc)

Pump discharge rate: 400gpm ☐ cfs or ☐ gpd Horsepower: ________ Pump Efficiency: ________

c. Conduit from diversion point to first lateral or to offstream storage reservoir:

CONDUIT (pipe or channel)	MATERIAL (type of pipe or channel lining; indicate if pipe is buried or not)	CROSS-SECTION (pipe diameter, or ditch depth and top and bottom width) (inches or feet)	LENGTH (feet)	TOTAL LIFT OR FALL		CAPACITY (cfs, gpd or gpm)
				feet	+ or -	
pipe	PVC					

☐ *See Attachment No.* ___

d. Storage reservoirs: (For underground storage, complete and attach form APP-UGSTOR)

RESERVOIR NAME OR NUMBER	DAM				RESERVOIR		
	Vertical height from downstream toe of slope to spillway level (feet	Construction material	Length (feet)	Freeboard: dam height above spillway crest (feet)	Surface area when full (acres)	Capacity (acre-feet)	Maximum water depth (feet)
Middle	23.5	earth	350	4ft	~~2.4ac~~	~~32~~	~~22~~
Lower	24.5	earth	300Ft	4.7	3½ ac	44	17'

PURDON

jgh 8/16/07

☐ *See Attachment No.* ___ — 8/17/07 email KIW

e. Outlet pipe: Complete for storage reservoirs having a capacity of 10 acre-feet or more.

RESERVOIR NAME OR NUMBER	OUTLET PIPE				
	Diameter (inches)	Length (feet)	Fall: vertical distance between entrance and exit of outlet pipe (feet)	Head: vertical distance from spill-way to entrance of outlet pipe (feet)	Dead Storage: storage below entrance of outlet pipe (acre-feet)
	2ft				
	—				

☐ *See Attachment No.* ___

f. If water will be stored and the reservoir is not at the point of diversion, the maximum rate of diversion to off-stream storage will be ________ cfs. Diversion to offstream storage will be made by: ☐ Pumping ☐ Gravity

3. **CONSERVATION AND MONITORING**

a. What methods will you use to conserve water? Explain. have drip irrigation system

b. How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water? ☐ Weir ☐ Meter ☐ Periodic sampling ☐ Other (describe) no need
~~Using drip irrigation of 32 acres on 139 acres~~

4. **RIGHT OF ACCESS**

a. Does the applicant own all the land where the water will be diverted, transported and used? ☒ YES ☐ NO
If NO, I ☐ do ☐ do not have a recorded easement or written authorization allowing me access.

b. List the names and mailing addresses of all affected landowners and state what steps are being taken to obtain access: ______________________

☐ *See Attachment No.* ___

5. **EXISTING WATER RIGHTS AND RELATED FILINGS**

a. Do you claim an existing right for the use of all or part of the water sought by this application? ☐ YES ☒ NO
If YES, please specify: ☐ Riparian ☐ Pre-1914 ☐ Registration ☐ Permit ☐ License
☐ Percolating groundwater ☐ Adjudicated ☐ Other (specify) ________

b. For each existing right claimed, state the source, year of first use, purpose, season and location of the point of diversion (to within quarter-quarter section). Include number of registration, permit, license, or statement of

water diversion and use, if applicable. _____

c. List any related applications, registrations, permits, or licenses located in the proposed place of use or that utilize the same point(s) of diversion? Appl 29024 has a reservoir thats is directly downstream
☐ *See Attachment No.* ___

6. OTHER SOURCES OF WATER

Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection with this project? ☐ Yes ☒ No If yes, please explain: _____

7. MAP REQUIREMENTS

The Division cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section and quarter/quarter section of (1) the proposed points of diversion and (2) the place of use. A copy of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting goods stores or through the Internet at http://topomaps.usgs.gov. A certified engineering map is required when (1) appropriating more than three cfs by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or (4) appropriating more than 1000 acre-feet per annum by underground storage. See the instruction booklet for more information.

☐ *See Attachment No.* ___

SECTION C: ENVIRONMENTAL INFORMATION

Note: Before a water right permit may be issued for your project, the State Water Resources Control Board (SWRCB) must consider the information contained in an environmental document prepared in compliance with the California Environmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been prepared for your project, a determination must be made of who is responsible for its preparation. If the SWRCB is determined to be responsible for preparing the CEQA document, the applicant will be required to pay all costs associated with the environmental evaluation and preparation of the required documents. Please answer the following questions to the best of your ability and submit with this application any studies that have been conducted regarding the environmental evaluation of your project.

1. COUNTY PERMITS

a. Contact your county planning or public works department and provide the following information:

Person contacted: _____ Date of contact: _____
Department: _____ Telephone: (____) _____
County Zoning Designation: Agricultural
Are any county permits required for your project? ☐ YES ☒ NO If YES, check appropriate box below:
☐ Grading permit ☐ Use permit ☐ Watercourse ☐ Obstruction permit ☐ Change of zoning
☐ General plan change ☐ Other (explain): _____

b. Have you obtained any of the required permits described above? ☐ YES ☐ NO none needed
If YES, provide a complete copy of each permit obtained.
☐ *See Attachment No.* ___

2. STATE/FEDERAL PERMITS AND REQUIREMENTS

a. Check any additional state or federal permits required for your project:
☐ Federal Energy Regulatory Commission ☐ U.S. Forest Service ☐ U.S. Bureau of Land Management
☐ U.S. Corps of Engineers ☐ U.S. Natural Res. Conservation Service ☐ Calif. Dept. of Fish and Game
☐ State Lands Commission ☐ Calif. Dept. of Water Resources (Div. of Safety of Dams)
☐ Calif. Coastal Commission ☐ State Reclamation Board ☐ Other (specify) none

b. For each agency from which a permit is required, provide the following information:

AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.

☐ *See Attachment No.* ___

c. Does your proposed project involve any construction or grading-related activity that has significantly altered or would significantly alter the bed, bank, or riparian habitat of any stream or lake? ☐ YES ☒ NO
If YES, explain: _____

☐ *See Attachment No. ___*

d. Have you contacted the California Department of Fish and Game concerning your project? ☐ YES ☒ NO
If YES, name and telephone number of contact: _____

3. ENVIRONMENTAL DOCUMENTS

a. Has any California public agency prepared an environmental document for your project? ☐ YES ☒ NO

c. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency: _____

d. If NO, check the appropriate box and explain below, if necessary:

☐ The applicant is a California public agency and will be preparing the environmental document.*

☒ I expect that the SWRCB will be preparing the environmental document.**

☐ I expect that a California public agency other than the State Water Resources Control Board will be preparing the environmental document.* Public agency: _____

☐ *See Attachment No. ___*

* Note: When completed, submit a copy of the final environmental document (including notice of determination) or notice of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed until these documents are submitted.

** Note: CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the SWRCB, Division of Water Rights.

4. WASTE/WASTEWATER

a. Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentation?
☐ YES ☒ NO
If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):

☐ *See Attachment No. ___*

b. Will a waste discharge permit be required for your project? ☐ YES ☒ NO
Person contacted: _____ Date of contact: _____

c. What method of treatment and disposal will be used? _____

☐ *See Attachment No. ___*

5. ARCHEOLOGY

a. Have any archeological reports been prepared on this project? ☐ YES ☒ NO

b. Will you be preparing an archeological report to satisfy another public agency? ☐ YES ☒ NO

c. Do you know of any archeological or historic sites located within the general project area? ☐ YES ☒ NO
If YES, explain: _____

☐ *See Attachment No. ___*

6. ENVIRONMENTAL SETTING

Attach **three complete sets of color photographs**, clearly dated and labeled, showing the vegetation that exists at the following three locations:

☐ Along the stream channel immediately downstream from the proposed point(s) of diversion.

☐ Along the stream channel immediately upstream from the proposed point(s) of diversion.

☐ At the place(s) where the water is to be used.

☐ *See Attachment No. ___*

See Appl 29024 and Cancelled Appl 30690 for photos of this project

SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an $850 check for the environmental review fee, payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

X [signature] ENG. FOR DOMAINE CHIRAC O/NEWTON OIL 4-4-07

Signature of Applicant | Title or Relationship | Date

Signature of Co-Applicant (if any) | Title or Relationship | Date

"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- ❑ **Answer each question completely in Sections A, B, and C.**
- ❑ **Number and include all necessary attachments.**
- ❑ **Include a legible map that meets the requirements discussed in the instruction booklet (Item B5).**
- ❑ **Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).**
- ❑ **Include three complete sets of color photographs of the project site (Item C6).**
- ❑ **Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.**
- ❑ **Enclose a $850 check for the environmental review fee, payable to the Department of Fish and Game, as specified in Section D.**
- ❑ **Sign and date the application in Section E.**

Send the original and one copy of the entire application to:

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000
Sacramento, CA 95812-2000

Wagner&Bonsignore
Consulting Civil Engineers, A Corporation

Nicholas F. Bonsignore, P.E.
Robert C. Wagner, P.E.
Paula J. Whealen
Andrew T. Bambauer, P.E.
David M. Houston, P.E.
Ryan E. Stolfus

MEMORANDUM

To: Tevis Armstrong

From: Nicholas F. Bonsignore, P.E. 413

Date: April 3, 2007

Re: **New Water Right Application by Domaine Chandon – Reasonable Likelihood of Water Availability**

California Water Code Section 1260(k) requires that every application for a permit to appropriate water shall include "sufficient information to demonstrate a reasonable likelihood that unappropriated water is available for the proposed appropriation." This narrative and accompanying calculations provide the required information.

The subject Application is within the watershed of an unnamed stream tributary to Sulphur Creek thence the Napa River in Napa County (see attached map). According to State Water Resources Control Board Order WR 98-08, the Napa River watershed is fully appropriated from May 15 to October 31. The Application proposes a diversion season of November 15 to March 31, which conforms to Order WR 98-08. The following describes the methodology used to demonstrate a *reasonable* likelihood that water is physically available for the proposed appropriation.

The subject Application is a companion to Permit 20465 (Application 29024), which allows for storage of water in two reservoirs, one of which is upstream of the point of diversion named in the subject Application, and the other of which is downstream. The attached map shows the location of the most downstream point of diversion under Permit 20465; this point is used as the reckoning point for this analysis, and the watershed area tributary thereto is also shown. The map also shows lines of equal mean annual runoff as shown on the map included with the document entitled *Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 by S.E. Rantz, 1974.*[1] An excerpt of this map is attached (Rantz map).

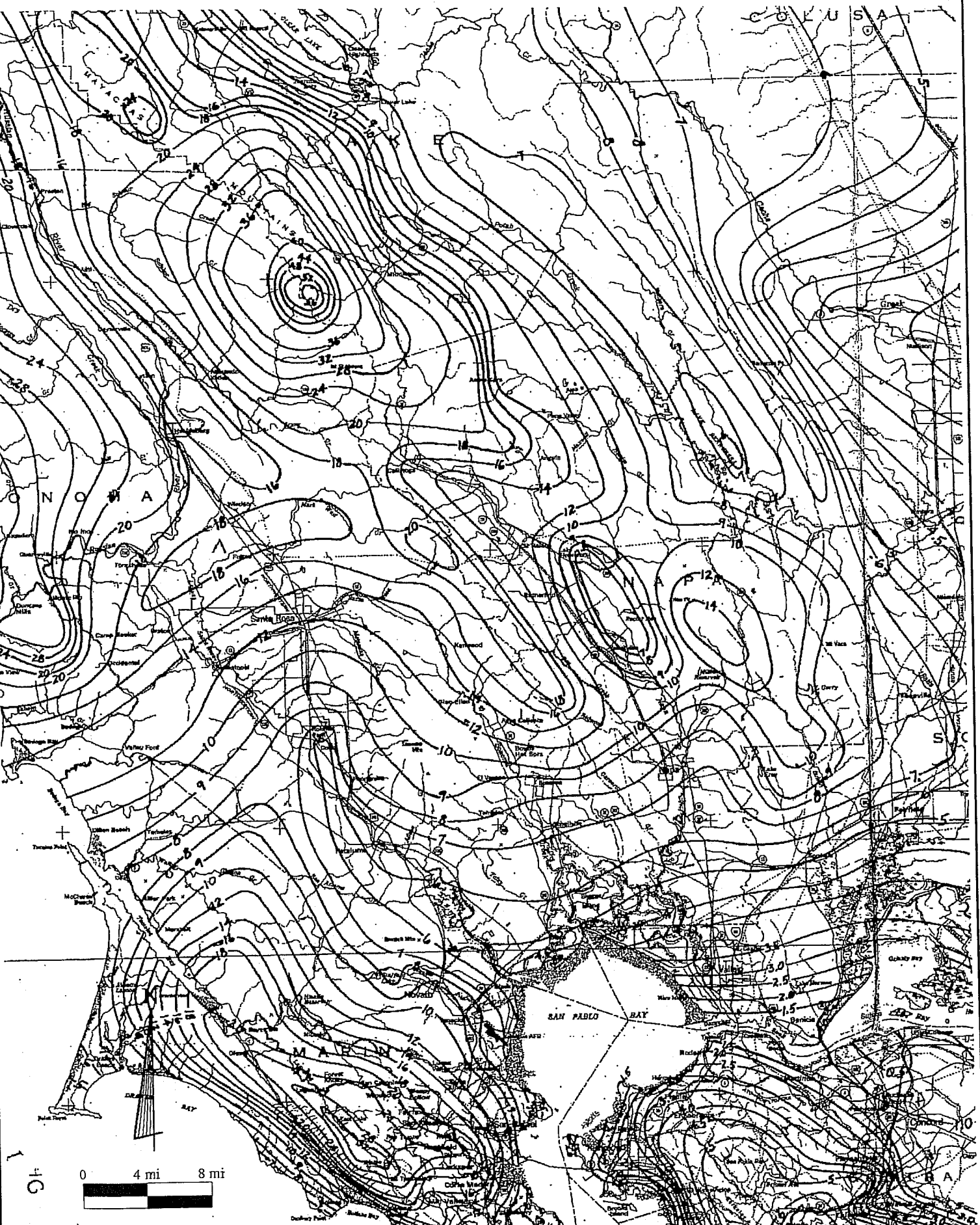
The weighted mean annual runoff for the watershed tributary to the reckoning point was computed based on the Rantz map. Mean *seasonal* runoff for the subject watershed was estimated by adjusting the mean *annual* runoff assuming that the ratio of seasonal to annual runoff is identical to the ratio of seasonal to annual mean precipitation. The St. Helena precipitation station was used for this purpose (record attached). The resulting seasonal runoff

[1] USGS Miscellaneous Field Studies Map MF-613, prepared in cooperation with the California Department of Water Resources.

value was adjusted by deducting the *face value* of any senior water rights in the watershed above the proposed points of diversion.

Calculations for the foregoing methodology are attached. The calculations show that that after allowing for diversion of 61 acre-feet under Permit 20465 and 32 acre-feet under the subject Application, there would still be about 97 acre-feet remaining in the stream for the season evaluated. Accordingly, it is reasonable to conclude that water is available for the subject Application.

MISCB457.doc



Mean Annual Runoff In The San Francisco Bay Region, California, 1931-70 by S.E. Rantz, 1974.

April 200

SAINT HELENA, CALIFORNIA

Monthly Total Precipitation (inches)

-47643

File last updated on Mar 30, 2004

*** Note *** Provisional Data *** After Year/Month 200312

a = 1 day missing, b = 2 days missing, c = 3 days, ..etc..,

z = 26 or more days missing, A = Accumulations present

Long-term means based on columns; thus, the monthly row may not sum (or average) to the long-term annual value.

MAXIMUM ALLOWABLE NUMBER OF MISSING DAYS : 5

Individual Months not used for annual or monthly statistics if more than 5 days are missing.

Individual Years not used for annual statistics if any month in that year has more than 5 days missing.

WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANN
1931	-	-	-	0 z	1.5 i	3.02	0.85	1.31	0.78	0	0	0	-
1932	2.26	2.5	14.38	3.47	1.95	1.05 c	1.08	1.83	0.08	0 g	0	0	-
1933	0.06	1.1 a	4.53 c	7.86	1.17	4.52	0.07	2.03	0	0	0	0.11	27.46
1934	2.72	0	8.98	2.26	5.36	0.75	0.98	1.6	0.56	0	0.08	0.09	22.89
1935	2.17	5.53	3.51	8.92	2.51	6.51	6.24	0	0	0	0.25	0.02	30.25
1936	1.32	1.22	3.26	9.63	14.91	1.81	2.03 a	0.32	1.36	0.07	0.01	0	33.43
1937	0.37	0	2.92	5.45	10.61	6.46	1.35	0.05	0.77	0.16	0	0	39.93
1938	0.9	5.94	8.24	6.45	13.32	9.7	2.67	0.05	0	0	0	0.37	38.07
1939	1.55	2.09	1.87	4.39	1.73	2.96	0.17	1.04	0	0	0	0	14.22
1940	0.21	0.41	3.31	13.48	14.1	7.96	1.69	1.33	0.04	0	0	0.13	60.39
1941	1.77	2.87	17.02	11.72	9.83	6.39	6.06	1.39	0.49	0	0.03	0.04	53.07
1942	1.58	3.43	12.11	7.92	9.43	4.55	6.73	1.78	0	0	0	0.01	42.89
1943	1	6.31	5.16	11.92	2.18	3.34	2.54	0.02	0.05	0	0	0	24.54
1944	0.72	1.27	2.5	5.56	7.78	3.68	2.58	1.39	0.25	0	0	0	33.3
1945	2.27	6.36	3.43	3.14	6.53	4.68	0.47	1.19	0	0	0	0	38.93
1946	5.32	5.81	11.79	1.59	2.19 b	2.77	0.42	0.43	0	0.15	0	0.05	16.29
1947	0.22	5.2	3.27	1.22	3.76	6.07	0.51	0.45	1.28	0	0	0	21.21
1948	5.96	0.74	1.22	2.76	1.64	5.18	7.17	0.97	0.18	0	0	0.12	25.87
1949	0.87	1.65	5.33	2.71	3.74	7.41	0.02	0.42	0	0.02	0.13	0	20.36
1950	0	2.89	3.02	10.32	5.26	3.28	1.43	0.58	0	0	0	0.01	42.84
1951	4.71	7.67	9.58	6.77	3.31	1.77	1.52	1.35	0	0	0.03	0.05	34.09
1952	2.93	6.27	10.09	14.19	4.12	5.68	1.16	0.16	0.76	0.02	0	0	45.41
1953	0.02	3.21	16.09 c	7.86	0.07	4.94	4.02 b	1.28	0.48	0	0.13	0	24.94
1954	1.13	5.03	0.51 j	9.54	5.66	5.73	3.15	0.35 c	0.2 b	0.15 i	0.7	0.02	-
1955	0.44	5.24	5.17	3.31	2.09 b	0.57	3.81	0	0.02	0 g	0 c	0.53	-
1956	0.27	3.08	24.32	11.97	10.88	0.34	1.9 a	0.88	0.04 b	0.01 g	0	0.15	-
1957	3.3	0.11	0.48	3.4 b	8.22	3.28	2.4	4.53 b	0.5 b	0	0	1.7	36.45
1958	5.53 a	1.19	5.7	8.98	15.74	8.59	6.9	0.86	0.93	0.49	0	0.04	45.31
1959	0.08	0.27	2.43	8.9	1.33 o	1.54 c	0.44	0.1 k	0 a	0	0 b	3.66	-
1960	0 f	0.03	2.45	7.14	11.51 d	5.66	1.81	1.01	0	0	0 d	0.01 b	-
1961	0.67 e	4.69	3.63	5.89 e	2.78	3.54 g	2.13	0.25	0.28 i	0 c	0.15	0.37	-
1962	0.14 c	4.88	5.75	2.71	13.52	5.41	0.38	0.26	0	0	0.04	0.23	40.77
1963	11.77	1.07	5.38	8.58	4.63	6.07	6.24	0.57	0	0	0.02	0.01	36.7
1964	1.84	8	0.74	5.32	0.15	2.69	0.11	0.48	0.75	0.04	0	0	32.75
1965	2.18	6.81	14.22	9.63	1.24	1.33	4.59	0	0	0.02	0.82	0	30.85
1966	0.05	7.76	5.41	9.03	3.87	0.9	0.81	0.12	0.08	0.05	0.32	0.23	32.37
1967	0	9.83	7.13	16.91	0.38	7.13	5.01	0.24	1.89	0	0	0.1	39.58
1968	0.92	2.41	4.59	11.55	4.8	3.85	0.55	0.47	0	0	0.81	0	39.21

WY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANN
1969	2.92	3.68	10.58	17.13	10.82	1.58	2.34	0.08	0.11	0	0	0	49.74
1970	2.8	1.32	13.56	19.75	3.29	2.92	0.22	0.05	0.35	0	0	0	54.35
1971	1.99	11.96	13.82	3.2	0.26	5.49	0.9	0.37	0	0	0	0.29	21.4
1972	0.37	2.71	7.81	2.36	3.74	0.8	2.42	0.1	0.13	0	0	0.65	25.4
1973	3.48	7.21	4.51	17.32	8.35	3.61	0.05	0.04	0	0	0.01	0.5	53.44
1974	2.62	15.25	5.69	6.49	4.49	8.32	2.02	0.05	0	1.08	0.1	0	29.82
1975	1.42	1.27	4.58	2.58	11.86	10.22	2	0.05	0	0.21	0.04	0	32.95
1976	4.2	0.98	0.81	0.48	2.43	1.04	2.05	0	0.08	0	0.8	0.62	10.41
1977	0.26	1.26	1.39	2.55	2.65	2.81	0.16	1.11	0	0	0	1.1	22.43
1978	0.46	7.08	4.51	18	7.25	6.68	3.31	0.09	0	0	0	1.23	39.35
1979	0	2.08	0.71	12.15	7.95	3.17	2.12	0.94	0 z	0 z	0 z	0 z	-
1980	0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	0 z	-
1981	0 z	0.46	9.48 a	0 z	2.72	4.19	0.33	0 z	0 z	0	0	0.32	-
1982	3.89	10.98	12.2	8	7.21	9.29	6.82	0	0.06	0	0 z	1.95	-
1983	4.55	10.36	5.41	11.23	16.98	14.53	4.15	0.54	0	0	0.32	0.48	75.4
1984	1.38	12.53	13.26	0.54	3.14	1.53	1.13	0.17	0.09	0	0.23	0 z	-
1985	2.04	0 z	0 z	1.47	4.83	4.98	0.26	0 z	0 z	0	0	0.87	-
1986	1.2	7.51 a	4.13	0 z	25.6	0 z	0.65	0 z	0	0	0	1.85	-
1987	0.12	0.12	2.1	0 z	5.38	4.86	0.14	0	0 z	0 z	0 z	0	-
1988	0 z	0 z	0 z	0 z	0 z	0 z	2.42	0.84	0.46	0 z	0	0	-
1989	0.08	5.75	4.71	1.35	1.04	10.6	0.42	0.03	0.05	0	0	1.8	20.61
1990	3.36	1.96	0	6.7	3.83	1.51	0.23	0 z	0	0	0	0.21	-
1991	0.6	0.56	0.48	0.73	5.37	16.38	0.27	0.12	0.64	0 z	0.09	0	-
1992	2.07	1.52 a	2.8 a	2.83 b	9.38	5.63	0.94	0	1.01	0	0 z	0	-
1993	3.42	0.7	14.53	13.13 a	7.66 b	3.02	1.92 d	1.65	1.35	0	0	0	37.3
1994	1.22	2.84 a	4.51	2.77	4.74	0.34	2.23	1.49	0	0	0	0	23.73
1995	1.05	7.03	4.08	23.3	0.82	16.83	1.83	2.55	0.36	0	0	0	57.61
1996	0	0.15	11.77	11.25	11.35	3.02	3.03	4.06	0	0	0	0	52.88
1997	1.06	4.97	14.14	14.76 b	0.47	1.05	0.66	0 b	0.12	0	0.73	0.12	30.8
1998	1.38	8.04	3.47	11.54	17.03	3.19	3.63 a	0 z	0	0 z	0	0.03	-
1999	0 z	7.17 b	2.57	3.42	12.01	4.76	2.98	0.02	0.23	0	0	0	-
2000	2.08	3.66	0 z	6.82	13.34	2.6	1.67	1.36	0.2	0	0	0	-
2001	4.81	1.38	0.91	5.58	8.19	2.99	0.66	0	0	0	0	0.29	39.84
2002	0.8	7.76	13.57	5.36	1.07	3.63	0	1.49	0	0	0	0	38.47
2003	0	4.8	22.12 a	3.74	3.87	3.13	7.43	1.44	0	0	0.2	0 a	36.78
2004	0.06	4.15	12.76 a	4.07 a	10.83 b	0 z	0 z	0 z	0 z	0 z	0 z	0 z	-
2005	0 z	0 z	0 z	0 z	5.04	6.92	1.77	4.89 a	0.64	0	0	0	-
2006	1.17	2.74	20.59	5.77 a	5.32 a	11.84	6.1	0.52	0 z	0 z	0 z	0 z	-
2007	0 z	0 z	0 z										-

Period of Record Statistics

MEAN	1.799	4.152	7.052	7.519	6.407	4.803	2.179	0.809	0.255	0.036	0.088	0.287	35.54
MAX	11.77	15.25	24.32	23.3	25.6	16.83	7.43	4.89	1.89	1.08	0.82	3.66	75.4
MIN	0	0	0	0.48	0.07	0.34	0	0	0	0	0	0	10.41
NO YRS	69	71	69	69	72	71	74	68	68	64	69	71	52

Water Right Application by Domaine Chandon
Estimate of Water Availability

Reckoning Point = Most downstream POD for Permit 20465

Monthly Precipitation[1]

SAINT HELENA, CALIFORNIA

Month	Mean Precipitation (in)
October	1.80
November	4.15
December	7.05
January	7.52
February	6.41
March	4.80
April	2.18
May	0.81
June	0.26
July	0.04
August	0.09
September	0.29
Annual	**35.39**

Mean Precipitation for requested diversion season (11/15 - 3/31):	27.86 in
Precipitation during requested diversion season as a percentage of total precipitation:	78.72%
Mean Annual Runoff:[2]	14.3 in
Estimated Mean Seasonal Runoff:[3]	11.3 in
Watershed Area for Reckoning Point:	201.7 ac

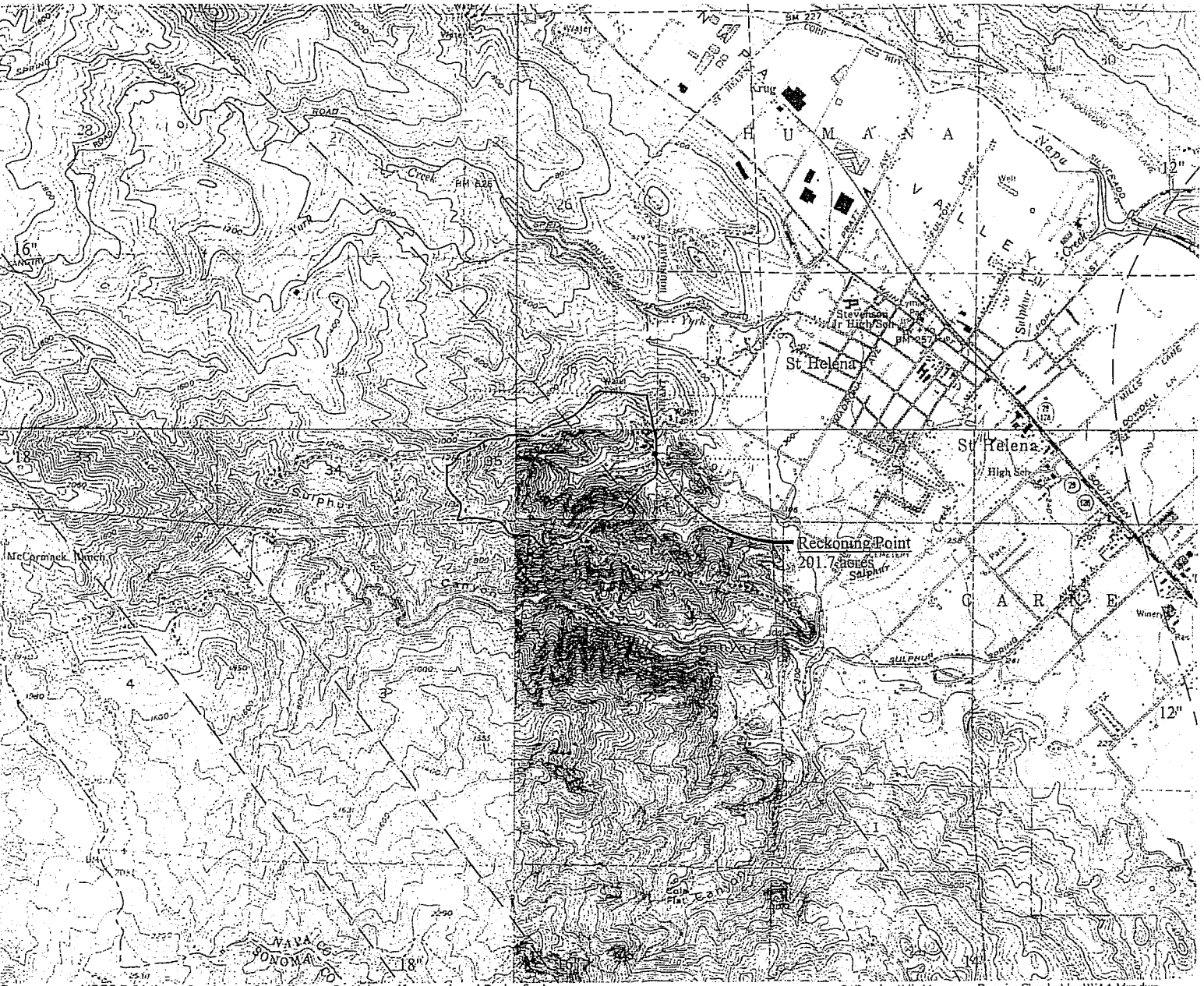
Total Estimated Mean Seasonal Runoff at Reckoning Point:	189.9 ac-ft
Senior Diverters of Record within subject watershed (face value):	0.0
Subtotal water available:	189.9 ac-ft
Deduct A29024 diversions:	61.0 ac-ft
Subtotal water available:	128.9 ac-ft
Requested diversion amount:	32.0 ac-ft
Total seasonal amount remaining in stream after diversion:	96.9 ac-ft

Notes:

[1] Source: Western Regional Climate Center website, http://www.wrcc.dri.edu/summary/climsmnca.html

[2] *Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 (Miscellaneous Field Studies Map MF-613)*, by S.E. Rantz, 1974.

[3] Estimated mean seasonal runoff is computed by multiplying mean annual runoff by percent seasonal precipitation.



Legend

- Watershed Boundary
- 14" — Line of Equal Mean Annual Runoff
- • Point of Diversion

Map to Accompany
Water Availability Analysis
for
Water Right Application
by
Domaine Chandon
for
Appropriation of Water
from Unnamed Stream

Napa County, California

Wagner · Bonsignore

Consulting Civil Engineers, A Corporation

April 2007

Base map per USGS 7.5 Minute Quad maps for Calistoga, St. Helena, Kenwood, and Rutherford.

Q:\Drawings\Misc\Armstrong-Domaine Chandon\dwg\WAA Map.dwg

Jane Ling - Re: Appl 31670 Newton Vineyards: request for a project description

From: <ShirIntev@aol.com>
To: <JLing@waterboards.ca.gov>
Date: 7/29/2008 6:13 AM
Subject: Re: Appl 31670 Newton Vineyards: request for a project description

Jane

Waret is stored in two onstream reservoirs. One covered by this application and ~~the~~ the second by Appl 29024. Water is released from the upper to the lower and pumped out to drip irrigate 139 acres of vineyard. This project has been in operation for 30 years

Tevis